

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,178	03/23/2004	Makoto Toyota	P24997.US0412.dc	2011
7055 7:	590 11/16/2006		EXAMINER	
GREENBLUM & BERNSTEIN, P.L.C. 1950 ROLAND CLARKE PLACE			A, MINH D	
RESTON, VA			ART UNIT	PAPER NUMBER
, , ,			2821	
			DATE MAILED: 11/16/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)				
	10/806,178	TOYOTA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Minh D. A	2821				
The MAILING DATE of this communicatio						
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICAT! - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatie - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory in - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a recon. The areply within the statutory minimum of thirty period will apply and will expire SIX (6) MON statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	31 August 2006.					
· <u> </u>						
3) Since this application is in condition for al	lowance except for formal matte	ers, prosecution as to the merits is				
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
. 4)⊠ Claim(s) <u>4-9 and 13-15</u> is/are pending in the application.						
4a) Of the above claim(s) is/are wit						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>4-9 and 13-15</u> is/are rejected.	·					
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction a	8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority docu	ments have been received in Ap	oplication No				
3. Copies of the certified copies of the	priority documents have been	received in this National Stage				
application from the International B	, , , ,					
* See the attached detailed Office action for	a list of the certified copies not i	received.				
	•					
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-94) 	• —	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date		formal Patent Application (PTO-152)				

Application/Control Number: 10/806,178 Page 2

Art Unit: 2821

DETAILED ACTION

Applicant 's communication filed on 8/31/06 has been carefully considered by the examiner. The arguments advanced therein are persuasive with respect to the rejection of record, and those rejection are accordingly withdraw. In view of a further consideration, however, a new rejection is set forth below. This action is not made final.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 4-9 and 13-15 are rejected under 35 U.S.C. 102(e) as being anticipated by Dygert (US 6, 864, 641).

Regarding claim 4, Dygert discloses, figures 3-4, a method and apparatus for controlling light emitting diodes comprising: a power source device (DC and DC/DC converter) comprising a current controller (booster and current regulating circuit (104)), and an illumination head (102), connected to the power source device, and comprising (boost regulator (304)) that detects current flowing through a power supply circuit, at least one light emitting device(102) being connected to the power supply circuit in the illumination head, wherein a resistance value of the current detection resistor (R20-R22)

Page 3

Art Unit: 2821

is selected so as to cause a voltage drop equal to a predetermined reference potential when a rated current is supplied to each light emitting device, and the current controller controls (amplifier) the supplied current such that a potential for the voltage drop caused in the current detection resistor (R19-R22) are equal to the predetermined reference potential and constant voltage (see amplifier(39) having constant voltage source)(Vr) is output from the current detection resistor for each of a plurality of illumination heads with different rated current. See figures 1-4, col.3, lines 12-67 to col.5, lines 1-67.

Regarding claim 5, Dygert discloses at least one light emitting device (102) connected to a power supply circuit' and a current detection resistor that detects a current flowing in the power supply circuit, a resistance value of the current detection resistor being selected so as to cause a voltage drop equal to a predetermined reference potential when a rated current is supplied to each light emitting device, a constant voltage source)(Vr) is output from the current detection resistor for each of a plurality of illumination heads with different rated current. See figures 1-4, col.3, lines 12-67 to col.5, lines 1-67.

Regarding claim 6, Dygert discloses, figures 1-4, a power source device that supplies power to an illumination head, comprising'. a current controller', wherein the illumination head includes a current detection resistor that detects a current flowing to a power supply circuit in which at least one light emitting device is connected, a resistance value of the current detection resistor being selected so as to cause a voltage drop equal to a predetermined reference potential when a rated current is supplied to each light emitting device, and wherein the current controller is disposed

Application/Control Number: 10/806,178

Art Unit: 2821

such that a potential of the voltage drop caused in the current detection resistor is equal to the predetermined reference potential when the illuminating head is connected to the power source device and a constant voltage source is output from the current detection resistor for each of a plurality of illumination heads with different rated current. See figures 1-4, col.3, lines 12-67 to col.6, lines 1-67.

Regarding claims 7-9, Dygest discloses a supplied current is controlled to be a rated current of the illumination head when the illumination head is connected to the power source device. See figures 1-4.

Regarding claims 13-15, Dygest discloses a table on col.7, lines 1-26, wherein a constant voltage is output from the current detection resistor for each of a plurality of illumination heads with different rated currents.

Citation of relevant prior art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure Haller (US 6,485,112) and Okawa et al (US 6,157,160) are cited to show a lighting control system.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on (571) 272-1740. The fax phone number for the organization where this application or proceeding is

Application/Control Number: 10/806,178

Art Unit: 2821

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Examiner

Minh A

Art Unit 2821

11/07/06

Shik-Ilao CL-Shih-Chao Chen Bibhaey Exammer

Page 5.